Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

	ridge So	uth	Agency ID:	020001	•	ate: 07/23/20	
	J				Inspected By:	AECOM-Com	nmonwealth
				IFICATION			
Rte.(On/Under)	5A :	Route On S	Structure	State	1:	44 Rhode Isla	and
Rte. Signing Prefix	5B:	1 Interstate	Hwy) Facilit	y Carried 7:	I-195 EB	
Level of Service	5C:	1 Mainline		Munici	pality 4:	East Providen	ıce
Route Number	5D:	00195) SHD D	istrict 2:	District 3	
Directional Suffix	5E:	2 East		Featur	e Intersected 6:	SEEKONK R\	VR & STS
Border Bridge Code	<mark>98</mark> :	Not Applica	ble (P)	County	/ Code 3:	Providence	
Border Bridge Numb	oer <mark>99</mark> :			Locat	ion 9:	1.0 Mi E of JC	CT I-95&195
Mile Post	11:	1.273 mi		Latituc	le 16:	4	1° 49' 08"
Struc Num	8:	00000000	002000	Longit	ude 17:	07	'1° 23' 13"
% Responsibility:)			
			INSF	PECTION			
Inspection Date	90:	7/23/2019		91: 24 month	s Next Inspect		23/2021
FC Inspection Date	93A:	NA	FC Frequency 92	2 A :	Next FC Insp	ection: NA	۹
UW Inspection Date	93B:	7/24/2017	UW Frequency 92	2B: 48 month	s Next UW Ins	pection: 7/2	23/2021
SI Date	93C:	NA	SI Frequency 92	C:	Next SI:	NA	۹
Element Insp. Date:		7/23/2019	Element Frequer		s Next Elem. Ir	1sp: 7/2	23/2021
Culvert 62: N N/	A (NBI)	Channel/C	Channel Protection	61: 6 Ba	nk Slumping) SD/FC	
Inventory Rating M	Method 6!	5∙ 3 LRF	LOAD RATIN			1 63 · 3 LRFR	Load & Res. Fa
Inventory Rating			R Load & Res. Fac		TING ng Rating Method		R Load & Res. Fa
Inventory Rating	6	6: MS16	R Load & Res. Fac	t Operati		d 63: 3 LRFR 64: MS22.2	
Inventory Rating Design Load	6) 31	6: MS16 1: 5 MS	R Load & Res. Fac .6 18 (HS 20)	t Operati Operati	ng Rating Methoo ng Rating	64: MS22.2	2
Inventory Rating	6	6: MS16 1: 5 MS	R Load & Res. Fac .6 18 (HS 20) en, no restriction	t Operati Operati Posting	ng Rating Methoo ng Rating		2
Inventory Rating Design Load Posting Status	60 31 41	6: MS16 1: 5 MS 1: A Ope	R Load & Res. Fac 6 18 (HS 20) en, no restriction GEOM	t Operati Operati Posting	ng Rating Methon ng Rating 170: 5 At/	64: MS22.2 Above Legal Lo	2 pads
Inventory Rating Design Load Posting Status Length Max Span	60 31 41	6: MS16 1: 5 MS 1: A Ope 48: 16	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft	t Operati Operati Posting ETRIC DATA	ng Rating Method ng Rating 170: 5 At/ ructure Lenath	64: MS22.2 Above Legal Lo. 49:	2 pads 1,670.79 f
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur	6(31 4'	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft	t Operati Operati Posting ETRIC DATA	ng Rating Method ng Rating 170: 5 At/ ructure Lenath urb/Sdwlk Width I	64: MS22.2 Above Legal Lo. 49: L 50A:	2 pads 1,670.79 f 0.00
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa	6(31 4'	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft	t Operati Operati Posting ETRIC DATA	ng Rating Method ng Rating 170: 5 At/ ructure Lenath urb/Sdwlk Width I urb/Sidewalk Wid	64: MS22.2 Above Legal Lo. 49: L 50A: th R 50B:	2 pads 1,670.79 f 0.00 0.00 ft
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders)	6(31 4'	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft	t Operati Operati Posting ETRIC DATA	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out	64: MS22.2 Above Legal Lo. 49: L 50A: th R 50B: 52:	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area:	6(31 4'	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 115	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft .00 ft 9.461.48ft ²	t Operati Operati Posting ETRIC DATA	ng Rating Method ng Rating 170: 5 At/ ructure Lenath urb/Sdwlk Width I urb/Sidewalk Wid idth Out to Out edian	64: MS22.2 Above Legal Lo. 49: L 50A: th R 50B: 52: 33: 0 No	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders)	60 31 44 rb ay width	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 11! 34: 0.00'	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft .00 ft 9.461.48ft ²	t Operati Operati Posting ETRIC DATA St Cu W W Ma	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area: Skew	60 31 44 rb ay width	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 111 34: 0.00 10: 99	R Load & Res. Fac .6 18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft .00 ft 9.461.48ft ²	t Operati Operati Posting ETRIC DATA St Cu W W Ma	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width I urb/Sidewalk Wid idth Out to Out edian ructure Flared	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median s, flared
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area: Skew Vertical Clearance	6(31 4' rb ay width clearanc	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 11: 34: 0.00° 10: 99 The Over Bridg	R Load & Res. Fac .6 .6 18 (HS 20) .00 en, no restriction	t Operati Operati Posting ETRIC DATA St Cu W Me St Hc	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out edian ructure Flared prizontal Clearance	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median s, flared
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical	60 31 42 rb ay width Clearanc Undercle	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 11! 34: 0.00' 10: 99 ee Over Bridg parance Refer	R Load & Res. Fac .6 .6 18 (HS 20) .00 en, no restriction	tt Operati Operati Posting ETRIC DATA St Ct Ct W Mt St Hc 17.00 ft	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out edian ructure Flared prizontal Clearance	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median s, flared
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical	60 31 42 rb ay width Clearanc Undercle Undercle	6: MS16 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 11! 34: 0.00' 10: 99 e Over Bridg barance Refer barance	R Load & Res. Fac .6 .18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft .00 ft .00 ft 9.461.48ft²	t Operati Operati Posting ETRIC DATA St Ct Ct W Ma St Hc 17.00 ft	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out edian ructure Flared orizontal Clearance h struct	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median s, flared
Inventory Rating Design Load Posting Status Length Max Span Width Curb to Cur Approach Roadwa (w/ shoulders) Deck Area: Skew Vertical Clearance Minimum Vertical Minimum Vertical	60 31 4' rb ay width Clearanc Undercle Undercle	6: MS16 6: 5 MS 1: 5 MS 1: A Ope 48: 16 51: 68 32: 68 111 34: 0.00° 10: 99 e Over Bridg earance Refer earance Refer	R Load & Res. Fac .6 .18 (HS 20) en, no restriction GEOME 0.37 ft .00 ft .00 ft .00 ft 9.461.48ft²	t Operati Operati Posting ETRIC DATA St Ct Ct Ct W Me St Hc 17.00 ft H Hwy beneat 20.75 ft	ng Rating Method ng Rating 70: 5 At/ ructure Lenath urb/Sdwlk Width l urb/Sidewalk Wid idth Out to Out edian ructure Flared orizontal Clearance h struct	64: MS22.2 Above Legal Lo 49: L 50A: th R 50B: 52: 33: 0 No 35: 1 Yes	2 pads 1,670.79 f 0.00 0.00 ft 71.50 ft median s, flared

CN_Ver_Inspection_SIA_English

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Year Built		7: 1930	AGE AN		ADT	29		170,767
		••••••						
Type of Service on	42/	-			Year Reconstructed	106	:	2008
Type of Service unde	r 42	B: 6 Highwa	y-waterway) (Detour Length	19):	1.9 mi
Lanes on	28	A : 5) (Fruck ADT	109	:	2%
Lanes under	28	B : 4			Year of ADT	30):	2015
Number of Annua	ah Cuan		TRUCTURE TY			n n i4	45.	14
Number of Approad			lithia Concrete		Number of Spans Mai			
Wearing Surface			lithic Concrete		Main Span Material Do			4 Steel Continuous
Membrane	10	0 None			Main Span Material Do	esign 43	3B:	02 Stringer/Girder
Deck protection	1	08C: 1 Epoxy	Coated Reinfor) (Deck Type	1()7:	1 Concrete-Cast-ir
	004	1 Meets Standa		RAISA			1 Moo	ts Standards
Bridge Rail	36A:				Approach Rail	36C:		
Transition	36B:	1 Meets Standar			Approach Rail Ends	36D:		ts Standards
Str Evaluation	67 :	6 Equal Min Crit	eria	(Deck Geometry	<mark>68</mark> :	4 Tole	rable
Waterway Adequad	;y <mark>71</mark> :	9 Above Desirat	ble	(Approach Alignment	72:	6 Equ	al Min Criteria
Scour Critical	113:	3 SC - Unstable						
Coccar entited)					
Underclearance, Ve				ove Des	irable			
		nd Horizontal 69:	9 Abc					
			9 Abc			101:	Right	of bridge
Underclearance, Ve	ertical ar	nd Horizontal 69:	9 Abc					of bridge pplicable (P)
Underclearance, Ve	ertical ar	nd Horizontal 69: 1 On Interstate	9 Abc		FION Parallel Structure		Not A	
Underclearance, Ve Defense Highway Direction of Traffic	ertical ar 100: 102:	1 On Interstate	9 Abc		FION Parallel Structure Temporary Structure	103:	Not A	pplicable (P)
Underclearance, Ve Defense Highway Direction of Traffic Highway System	100: 102: 104:	1 On Interstate 3 1 -way traffic 3 On free road	STRAHNE		FION Parallel Structure Temporary Structure NBIS Length	103: 112: 26:	Not A Long 11 Urt	pplicable (P) Enough
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy	100: 102: 104: 110:	1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS	STRAHNE ⁻		FION Parallel Structure Temporary Structure NBIS Length Functional Class	103: 112: 26: e 37:	Not A Long 11 Url 5 Not	pplicable (P) Enough pan Interstate
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility	100: 102: 104: 110: 20:	1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3	STRAHNE STRAHNE STRAHNE STRAHNE STRAHNE STRAHNE	SIFICA T ((((((TION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21	103: 112: 26: e 37:	Not A Long 11 Url 5 Not	pplicable (P) Enough pan Interstate eligible for NRHP
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility	100: 102: 104: 110: 20:	1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3	STRAHNE ⁻	SIFICA T ((((((TION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21	103: 112: 26: e 37:	Not A Long 11 Url 5 Not State H	pplicable (P) Enough pan Interstate eligible for NRHP
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner	100: 102: 104: 110: 20: 22:	1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3 01 State Highv	STRAHNE STRAHNE STRAHNE STRAHNE STRAHNE STRAHNE	SIFICA T ((((((TION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21	103: 112: 26: e 37: : 01 \$ 75:	Not A Long 11 Url 5 Not State H 35	pplicable (P) Enough Dan Interstate eligible for NRHP ighway Agency
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner Bridge Cost	100: 102: 104: 110: 20: 22: 94:	1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3 01 State Highv \$82,878,000	9 Abc CLASS STRAHNE [*] STRAHNE [*] STRAHNE [*] vay Agency PROPOSED	SIFICA T ((((((TION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21 VEMENTS Type of Work	103: 112: 26: e 37: : 01 \$ 75:	Not A Long 11 Url 5 Not State H 35	pplicable (P) Enough Dan Interstate eligible for NRHP ighway Agency Rehabilitate-gen.
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner Bridge Cost Roadway Cost	ertical ar 100: 102: 104: 110: 20: 22: 94: 95: 96:	1 On Interstate S 1 On Interstate S 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate S 01 State Highw \$82,878,000 \$8,287,800 \$124,317,000	9 Abc CLASS STRAHNE [*] STRAHNE [*] STRAHNE [*] vay Agency PROPOSED	SIFICA T ((((((FION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21 VEMENTS Type of Work Length of Improvem	103: 112: 26: e 37: : 01 § 75: ent 76:	Not A Long 11 Url 5 Not State H 35	pplicable (P) Enough Dan Interstate eligible for NRHP ighway Agency Rehabilitate-gen. 1,863.85
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner Bridge Cost Roadway Cost Total Cost Year of Cost Estin	100: 102: 102: 104: 110: 20: 22: 94: 95: 96: nate 97:	1 On Interstate 3 1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3 01 State Highw \$82,878,000 \$8,287,800 \$124,317,000 2007	9 Abc CLASS STRAHNE [*] STRAHNE [*] STRAHNE [*] PROPOSED PROPOSED NAVIGA	SIFICAT (((((((((((((())))))))))	FION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21 VEMENTS Type of Work Length of Improvem Future ADT Year of Future ADT DATA	103: 112: 26: e 37: : 01 § 75: ent 76: 114: 115:	Not A Long 11 Url 5 Not State H 35	pplicable (P) Enough Dan Interstate eligible for NRHP ighway Agency Rehabilitate-gen. 1,863.85 D4,921
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner Bridge Cost Roadway Cost Total Cost	100: 102: 102: 104: 110: 20: 22: 94: 95: 96: nate 97:	1 On Interstate S 1 On Interstate S 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate S 01 State Highw \$82,878,000 \$8,287,800 \$124,317,000	9 Abc CLASS STRAHNE [*] STRAHNE [*] STRAHNE [*] PROPOSED PROPOSED NAVIGA	SIFICAT (((((((((((((())))))))))	FION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21 VEMENTS Type of Work Length of Improvem Future ADT Year of Future ADT	103: 112: 26: e 37: : 01 § 75: ent 76: 114: 115:	Not A Long 11 Url 5 Not State H 35	pplicable (P) Enough Dan Interstate eligible for NRHP ighway Agency Rehabilitate-gen. 1,863.85 D4,921
Underclearance, Ve Defense Highway Direction of Traffic Highway System Defense Hwy Toll Facility Owner Bridge Cost Roadway Cost Total Cost Year of Cost Estin	100: 102: 104: 104: 110: 20: 22: 94: 95: 96: nate 97: 38:	1 On Interstate 3 1 On Interstate 3 1 1-way traffic 3 On free road 1 On the NHS 1 On Interstate 3 01 State Highw \$82,878,000 \$8,287,800 \$124,317,000 2007	9 Abc CLASS STRAHNE [*] STRAHNE [*] STRAHNE [*] PROPOSED PROPOSED NAVIGA	SIFICAT (((((((((((((())))))))))	FION Parallel Structure Temporary Structure NBIS Length Functional Class Historical Significance Custodian 21 VEMENTS Type of Work Length of Improvem Future ADT Year of Future ADT DATA	103: 112: 26: e 37: : 01 § 75: ent 76: 114: 115:	Not A Long 11 Url 5 Not State H 35 20 20 2	pplicable (P) Enough ban Interstate eligible for NRHP ighway Agency Rehabilitate-gen. 1,863.85 04,921 036

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Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

10803 Detarmitsor@gelPAtched Area 1.00 0% 0.00 100 0% 0.	0	12/3	Re Concrete Deck	119,494.00	0%	1.00	100%	119,493.00	0%	0.00	0%	0.00
1150 Opening (0) and (0, m) 1100 105 100 000 1000 0000 0000 8003 Stop-st Bios (2000) 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 815 0000 615 050		1080/3	Delamination/Spall/Patched Area	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
11950 ArsemPCoRC 11964 000 6% 95% 95% 00 </td <td></td> <td>1120/3</td> <td>Efflorescence/Rust Staining</td> <td>1.00</td> <td>0%</td> <td>0.00</td> <td>100%</td> <td>1.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
AN33 Step Are Geo Charmon PPS 5000 PSN 00.373.01 44. 4.455.00 PSN 0.001 Obs 0.001 Obs Obs <		1130/3	Cracking (RC and Other)	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
1979 1980 Opt microlitikan 19,34-60 19,33-80 64,34.00 95,3 64,30 65,3 64,30 65,3 64,30 65,3 65,30 65,3 65,30 65,3 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30 65,30		1190/3	Abrasion(PSC/RC)	119,491.00	0%	0.00	100%	119,491.00	0%	0.00	0%	0.00
U 1020 Seat Processor 242 400.00 978 5.200.00 076 0.00 076 0.00 076 0.00 10203 Convestor 1200 076 0.03 1700 0.00 0.05 </td <td></td> <td>8382/3</td> <td>Stay-in-Place Form</td> <td>97,500.00</td> <td>96%</td> <td>93,375.00</td> <td>4%</td> <td>4,125.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		8382/3	Stay-in-Place Form	97,500.00	96%	93,375.00	4%	4,125.00	0%	0.00	0%	0.00
1000 Constant 15.00 0% 0.00 1600 0% 0.00 0.00 12600 Constant 1200 0% 0.00 160% 2.00 0% 0.00	0	107/3	Steel Opn Girder/Beam	16,364.00	100%	16,334.00	0%	24.00	0%	6.00	0%	0.00
1000 Constrain 1200 0% 0.00 9% 0.00 0% 0.00 0% 0.00 0 2897 Rc Conc Colume 380 16% 2800 0% 0.00 0.		515/3	Steel Protective Coating	247,490.00	98%	242,490.00	2%	5,000.00	0%	0.00	0%	0.00
10003 Damage 2.00 PM 0.00 2.00 PM 0.00		1000/3	Corrosion	15.00	0%	0.00	100%	15.00	0%	0.00	0%	0.00
0 2553 Ps Conc Ostum 93.80 10% 33.80 10% 0.80 0% 0.80 0% 0.80 6 2163 Re Care Her Mall 1.100.00 10% 1.000.00 0% 0.00		1020/3	Connection	12.00	0%	0.00	50%	6.00	50%	6.00	0%	0.00
0 9393 Goaffil 1:9300 10% 1:9300 0% 0.00 0% 0.00 0% 0.00 0 2180 Re Case Prefet 1 0 <		7000/3	Damage	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
2160 Racene Peer Medi 697.00 95% 235.00 65% 222.00 65% 22.00 65% 0.00 1100/13 Determinator/SpatiPhiched and 11.00 0.5% 0.00 0.00% 0.00	0	205/3	Re Conc Column	39.00	100%	39.00	0%	0.00	0%	0.00	0%	0.00
19000 DuarmateringuisPland Alea 3.00 0% 0.00 100 0% 0.00		8368/3	Graffiti	1,190.00	100%	1,190.00	0%	0.00	0%	0.00	0%	0.00
Introl Efficiencemental basemp 1.00 0% 0.00 1100 0.00 0.00 0.00 1150.3 Cascing (RC and Ofm) 472.00 62% 285.00 38% 175.00 0% 0.00 0% 0.00 40053 Satiment1 1.00 0% 0.00 100% 1000 0% 0.00 0% <td>0</td> <td>210/3</td> <td>Re Conc Pier Wall</td> <td>587.00</td> <td>50%</td> <td>293.00</td> <td>50%</td> <td>292.00</td> <td>0%</td> <td>2.00</td> <td>0%</td> <td>0.00</td>	0	210/3	Re Conc Pier Wall	587.00	50%	293.00	50%	292.00	0%	2.00	0%	0.00
Integra Creating (RC and Olary) 472.00 67% 283.00 38% 170.00 0% 0.00 0% 0.00 1100.3 Abraion(PSC/RC) 10.00 0% 0.00 80% 8.00 20% 20% 0.00		1080/3	Delamination/Spall/Patched Area	3.00	0%	0.00	100%	3.00	0%	0.00	0%	0.00
Integra Abrascon(PSCRC) 10.00 0% 0.00 80% 6.00 20% 2.00 0% 0.00 40003 Sattlement 1.00 0% 0.00 100% 10.00 0% 0.00 100% 10.00 0% 0.00 100% 10.00 0% 0.00 100% 10.00 0% 0.00 100% 10.00 0% 0.00 100% 0.00 0% 0.00<		1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
40003 Settlement 1.00 0% 0.00 100% 1.00 0% 0.00 0%		1130/3	Cracking (RC and Other)	472.00	62%	293.00	38%	179.00	0%	0.00	0%	0.00
Example Sourt 100.00 0% 0.00 100% 1000.00 0% 0.00 0% 0.00 0 2159 Re Care Autiment 171.40 9% 160.00 100% 2.00.0 0% 0.00 0% 0.00 10003 Delamination/SpatPatche Ares 2.00 0% 0.00 100% 100% 0.00 0% 0.00 0% 0.00 11203 Edensonand/sub Saminy 1.00 0% 0.00 100% 0.00 0% 0.00 0% 0.00 11203 Edensonand/Sub Saminy 1.00 10% 1000 10% 0.00 0% 0.00 11203 Edensonand/Sub Saminy 2.18.00 9% 218.00 1% 0.00 0% 0.00 0% 0.00 0 2263 Stel Pile 6.00 1100 10% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0%		1190/3	Abrasion(PSC/RC)	10.00	0%	0.00	80%	8.00	20%	2.00	0%	0.00
Bases Contilit 3.240.00 0% 0.00 100% 3.240.00 0% 0.00 0% 0.00 2163 Re Conc Advancest 177.40 9% 118.60 2% 3.30 0% 0.00 0% 0.00 10% 2.00 0% 0.00 0.00 0.00 0.00 0.00 0% 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		4000/3	Settlement	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
0 2163 Rs Conc Abutment 117.00 99% 168.00 2% 3.00 0% 0.00 0% 0.00 110033 ElfersconneFluid Staming 1.00 0% 0.00 100% 1.00 0% 0.00 0% <td></td> <td>6000/3</td> <td>Scour</td> <td>100.00</td> <td>0%</td> <td>0.00</td> <td>100%</td> <td>100.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		6000/3	Scour	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
10803 Delamination/Spail/Patched Area 2.00 0% 0.00 100% 2.00 0% 0.00 0.0% 0.00 1120/3 Efforescence/Rust/Staining 1.00 0% 0.00 100% 10.00 0% 0.00 0		8368/3	Graffiti	3,240.00	0%	0.00	100%	3,240.00	0%	0.00	0%	0.00
19803 Delamination/sput/strinde Area 2.00 0% 0.00 100% 1.00 0% 0.00 0% 0.00 11203 EfflorescenceRuit Stanting 1.00 0% 0.00 0.00	0	215/3	Re Conc Abutment	171.00	98%	168.00	2%	3.00	0%	0.00	0%	0.00
H1303 Cracking (RC and Other) 168.00 100% 188.00 0% 0.00 0% 0.00 2203 Re Conce Flie CapPing 218.00 9% 216.00 1% 2.00 0% 0.00 0% 0.00 0 2263 Steal Pile 6.00 10% 6.00 1% 2.00 0% 0.00 0% 0.00 0 2263 Steal Pile 6.00 100% 6.00 0% 0.00 0% 0.00 0% 0.00 0 24403 Re Concesion 1.00 100% 0.00 10% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0%	· ·	1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
2203 Re Conc Ptie Cap/Fig 218.00 9% 216.00 1% 2.00 0% 0.00 0% 0.00 1190/3 Abrasion/PSC/RC) 218.00 9% 216.00 1% 2.00 0% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 1% 0.00 <td></td> <td>1120/3</td> <td>Efflorescence/Rust Staining</td> <td>1.00</td> <td>0%</td> <td>0.00</td> <td>100%</td> <td>1.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
Lo 1180/3 Abrasion(PSCIRC) 218.00 99% 218.00 1% 2.00 0% 0.00 <td></td> <td>1130/3</td> <td>Cracking (RC and Other)</td> <td>168.00</td> <td>100%</td> <td>168.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		1130/3	Cracking (RC and Other)	168.00	100%	168.00	0%	0.00	0%	0.00	0%	0.00
11903 Abrasion(PSC/RC) 216.00 1% 200 0% 0.00 0%	0	220/3	Re Conc Pile Cap/Ftg	218.00	99%	216.00	1%	2.00	0%	0.00	0%	0.00
I I		1190/3	Abrasion(PSC/RC)	218.00	99%	216.00	1%	2.00	0%	0.00	0%	0.00
1000/3 Corrosian 1.00 100% 1.00 0% 0.00 0%	0	225/3	Steel Pile	6.00	100%	6.00	0%	0.00	0%	0.00	0%	0.00
Internation Detamination/Spall/Platched Area 2.00 0% 0.00 100% 2.00 0% 0.00		1000/3	Corrosion	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
1080/3 Delamination/Spail/Patched Area 2.00 0% 0.00 100% 2.00 0% 0.00	0	234/3	Re Conc Pier Cap	920.00	99%	909.00	1%	11.00	0%	0.00	0%	0.00
11303 Cracking (RC and Other) 917.00 99% 909.00 1% 8.00 0% 0.00 0% 0.00 0 3009 Strip Seal Exp Joint 66.00 0% 0.00 34% 23.00 66% 45.00 0% 0.00 23403 Seel Cracking 45.00 0% 0.00 100% 45.00 0% 0.00 23603 Debris Impaction 23.00 0% 0.00 100% 6.80 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 10% 42.00 23.03 Seal Cracking 42.00 0% 0.00 178.00 0% 0.00 178.00 0% 0.00 178.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 <td></td> <td>1080/3</td> <td>Delamination/Spall/Patched Area</td> <td>2.00</td> <td>0%</td> <td>0.00</td> <td>100%</td> <td>2.00</td> <td>0%</td> <td>0.00</td> <td>0%</td> <td>0.00</td>		1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
0 300/3 Strip Seal Exp Joint 65.00 0% 0.00 34% 23.00 66% 45.00 0% 0.00 2360/3 Seal Cracking 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 45.00 0% 0.00 100% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 10% 42.00 0% 0.00 0% 0.00 100% 175.00 0% 0.00 100% 42.00 0% 0.00 100% 0.00 0% 0.00 0% 0.00 100% 100.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% <		1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
2340/3 Seal Cracking 4500 0% 0.00 0% 0.00 100% 45.00 0% 0.00 2350/3 Debris Impaction 23.00 0% 0.00 100% 23.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 10% 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		1130/3	Cracking (RC and Other)	917.00	99%	909.00	1%	8.00	0%	0.00	0%	0.00
2340/3 Seal Cracking 45.00 0% 0.00 0% 0.00 100% 45.00 0% 0.00 2350/3 Debris Impaction 23.00 0% 0.00 100% 23.00 0% 0.00 100% 42.00 230/3 Seal Cracking 42.00 0% 0.00 100% 176.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0%	0	300/3	Strip Seal Exp Joint	68.00	0%	0.00	34%	23.00	66%	45.00	0%	0.00
0 301/3 Pourable Joint Seal 161.00 10% 161.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 19% 42.00 230/3 Seal Cracking 42.00 0% 0.00 0% 0.00 0% 0.00 100% 178.00 0% 0.00 100% 0.00 100% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 100% 178.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0		2340/3	Seal Cracking	45.00	0%	0.00	0%	0.00	100%	45.00	0%	0.00
0 303/3 Assem Jrt With Seal 220.00 0% 0.00 81% 178.00 0% 0.00 19% 42.00 2340/3 Seal Cracking 42.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 0% 0.00 178.00 0% 0.00		2350/3	Debris Impaction	23.00	0%	0.00	100%	23.00	0%	0.00	0%	0.00
0 303/3 Assem Jnt With Seal 220.00 0% 0.00 81% 178.00 0% 0.00 19% 42.00 2340/3 Seal Cracking 42.00 0% 0.00 0% 0.00 0% 0.00 10% 42.00 2340/3 Debris Impaction 178.00 0% 0.00	0	301/3	Pourable Joint Seal	161.00	100%	161.00	0%	0.00	0%	0.00	0%	0.00
2340/3 Seal Cracking 42.00 0% 0.00 0% 0.00 0% 0.00 100% 42.00 2350/3 Debris Impaction 178.00 0% 0.00 100% 178.00 0% 0.00		303/3	Assem Jnt With Seal	220.00	0%	0.00	81%	178.00	0%	0.00	19%	42.00
0 321/3 Re Conc Approach Slab 2,212.00 26% 582.00 74% 1,630.00 0% 0.00 0% 0.00 510/3 Wearing Surfaces 782.00 62% 482.00 38% 300.00 0% 0.00 0% 0.00 3220/3 Crack (Wearing Surface) 170.00 0% 0.00 100% 170.00 0% 0.00 0%		2340/3	Seal Cracking	42.00	0%	0.00	0%	0.00	0%	0.00	100%	42.00
0 321/3 Re Conc Approach Slab 2.212.00 26% 582.00 74% 1,630.00 0% 0.00 0% 0.00 510/3 Wearing Surfaces 782.00 62% 482.00 38% 300.00 0% 0.00 0% 0.00 3220/3 Crack (Wearing Surface) 170.00 0% 0.00 170.00 0% 0.00		2350/3	Debris Impaction	178.00	0%	0.00	100%	178.00	0%	0.00	0%	0.00
510/3 Wearing Surfaces 782.00 62% 482.00 38% 300.00 0% 0.00 0% 0.00 3220/3 Crack (Wearing Surface) 170.00 0% 0.00 170.00 0% 0.00 <t< td=""><td>0</td><td>321/3</td><td></td><td>2,212.00</td><td>26%</td><td>582.00</td><td>74%</td><td>1,630.00</td><td>0%</td><td>0.00</td><td>0%</td><td>0.00</td></t<>	0	321/3		2,212.00	26%	582.00	74%	1,630.00	0%	0.00	0%	0.00
32203 Crack (Weering Surface) 170.00 0% 0.00 170.00 0% 0.00 0	L Ŭ	510/3		782.00	62%	482.00	38%		0%	0.00	0%	0.00
1130/3 Cracking (RC and Other) 100.00 100% 100.00 0% 0.00 0% 0.00 0% 0.00 1190/3 Abrasion(PSC/RC) 1,160.00 0% 0.00 1160.00 0% 0.00		3220/3	-	170.00	0%	0.00	100%	170.00	0%	0.00	0%	0.00
1190/3 Abrasion(PSC/RC) 1,160.00 0% 0.00 100% 1,160.00 0% 0.00 0				100.00	100%	100.00		0.00		0.00	0%	
0 331/3 Re Conc Bridge Railing 3,318.00 100% 3,317.00 0% 0.00 0% 1.00 0% 0.00 1130/3 Cracking (RC and Other) 3,309.00 100% 3,309.00 0% 0.00		1190/3		1,160.00	0%	0.00	100%	1,160.00	0%	0.00	0%	0.00
1130/3 Cracking (RC and Other) 3,309.00 100% 3,309.00 0% 0.00	0	331/3			100%	3,317.00	0%			1.00		0.00
7000/3 Damage 9.00 89% 8.00 0% 0.00 11% 1.00 0% 0.00 0 8060/3 Scupper 26.00 0% 0.00 85% 22.00 15% 4.00 0% 0.00 0 8107/3 Steel Opn Girder/Beam ENDS 310.00 10% 310.00 0% 0.00<	, v					-						
0 8060/3 Scupper 26.00 0% 0.00 85% 22.00 15% 4.00 0% 0.00 0 8107/3 Steel Opn Girder/Beam ENDS 310.00 100% 310.00 0% 0.00												
0 8107/3 Steel Opn Girder/Beam ENDS 310.00 100% 310.00 0% 0.00 0% <t< td=""><td>0</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	0		-									
515/3 Steel Protective Coating 3,710.00 100% 3,710.00 0% 0.00												
0 8213/3 R/C Return Wall 70.00 100% 70.00 0% 0.00	_ ,											
1130/3 Cracking (RC and Other) 70.00 100% 70.00 0% 0.00	•		ÿ									
0 8218/3 Backwall, All Types 171.00 98% 168.00 1% 1.00 1% 2.00 0% 0.00 1080/3 Delamination/Spall/Patched Area 2.00 0% 0.00 0% 0.00 100% 2.00 0% 0.00 1120/3 Efflorescence/Rust Staining 1.00 0% 0.00 100% 1.00 0% 0.00 0%	U											
1080/3 Delamination/Spall/Patched Area 2.00 0% 0.00 0% 0.00 100% 2.00 0% 0.00 1120/3 Efflorescence/Rust Staining 1.00 0% 0.00 100% 1.00 0% 0.00 0%	_											
1120/3 Efflorescence/Rust Staining 1.00 0% 0.00 100% 1.00 0% 0.00 <t< td=""><td>U</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	U											
1130/3 Cracking (RC and Other) 168.00 100% 168.00 0% 0%		1										
			-									
U VYNY ISVIAUOL BEALING 172.00 33/6 01.00 30/6 33.00 7/6 12.00 0/6 0.00			- · · ·									
	U		Second Dearing	172.00	0070	01.00	0070	55.00	. /0	12.00	J /0	0.00

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Bridge Inspection Report

			• •	•		•	-				
	1000/3	Corrosion	4.00	0%	0.00	100%	4.00	0%	0.00	0%	0.00
	1020/3	Connection	57.00	0%	0.00	79%	45.00	21%	12.00	0%	0.00
	2220/3	Alignment	8.00	0%	0.00	100%	8.00	0%	0.00	0%	0.00
	2230/3	Bulging, Splitting or Tearing	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
	2240/3	Loss of Bearing Area	40.00	0%	0.00	100%	40.00	0%	0.00	0%	0.00
0	8370/3	Steel Diaphragms	805.00	100%	804.00	0%	1.00	0%	0.00	0%	0.00
	515/3	Steel Protective Coating	24,200.00	100%	24,200.00	0%	0.00	0%	0.00	0%	0.00
	1020/3	Connection	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

LEM IBR	E	LEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
12	Re	Concrete Deck	3	07/23/2019	119,494.00	sq.ft	1.00	119,493.00	0.00	0.00
of 1 app 12). The ove isol	the deck roximatel undersi rhangs.	the grooved re was observed f y 2' to 3' apart de of the dec The exposed p as of scaling an d 84).	to ha anc k is ortio	ave wheel line l areas of min c covered by ns of the de	e rutting, tra nor scaling stay-in-plac eck undersio	nsverse and w e forr le wei	e hairline vear throug ns except re observe	cracks up Jhout (See for in E ed to have	to full leng photos 5, Bay "G" al e anchor l	gth space 7, 11 ar nd at th polt hole
		nination/Spall/Patched Area	3	07/23/2019	1.00	sq.ft	0.00	1.00	0.00	0.00
		Along the middle of been filled while off 42, 47 and 73). Some In Span #13, the e near the first interior of On the top of deck	ners h locatio xposeo cross fr	ave not. A few of ons were observed t d deck underside i rame from Pier #12 (the holes that o have exposed a in Bay "G" exhi See photo 73).	have no anchorbo bits an a	ot been filled Its hanging from area of scaling	exhibit signs m the holes (Se g up to 36" k	of leakage (Se e photo 42). ong x 20" wide	ee photos : e x 1/2" de
	1120 Efflore	12). escence/Rust Staining	3	07/23/2019	1.00	sq.ft	0.00	1.00	0.00	0.00
		The exposed deck ee photos 42, 47 and The north and s efflorescence (See ph	73). south	deck overhangs						and withc
	1130 Crack	ing (RC and Other)	3	07/23/2019	1.00	sq.ft	1.00	0.00	0.00	0.00
		On the top of the of 12). The exposed deck and 73). The north efflorescence (See ph	under h anc	side in Bay "G" (I south deck ove	exhibits hairline	transver	se cracks spa	aced 3' to 6'	' apart (See p	hotos 42,
	1190 Abras	ion(PSC/RC)	3	07/23/2019	119,491.00	sq.ft	0.00	119,491.00	0.00	0.00
		The exposed top of 7, 11 and 12).	f the	deck exhibits mod	erate wear, mir	or chips	in the conci	rete and isola	ted scrapes (S	See photos
	8382 Stay-i	n-Place Form	3	07/23/2019	97,500.00	sq.ft	93,375.00	4,125.00	0.00	0.00
		The stay-in-place form sections, espe	cially	in bays "A" and				-		-
		spans (See photos 29	and 7	0).						
.EM BR	E	LEMENT NAME	env	0). INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

The superstructure consists of ten (10) weathering steel plate girders, continuous over all piers except Piers #4 and #9 (See photos 39 and 67). Span #14 is splayed at Abutment #2, with two rolled section kicker beams supporting the flared section of deck along the south side of the bridge. The girder ends are painted below the deck joints at the abutments and at Piers #4 and #9 (See photos 39 and 87).

There are several locations of concrete overpour on the girder webs and bottom flanges throughout the bridge (See photos 46 and 57).

The following locations present minor defects as follows:

In Span #1, Girder "J" has a slightly bent bottom flange, approximately 11' from Pier #1 measuring 5" long x 1/8" high.

In Spans #4 and #5, Girders "A" and "J" do not exhibit the positive camber as adjacent girders and the same girders in other spans.

In Span #11, Girders "A", "B" and "C" do not exhibit the positive camber as adjacent girders and the same girders in other spans, as previously noted in the 2015 Routine Inspection.

	Steel Protective Coating	3	07/23/2019	247,490.00	sq.ft	242,490.00	5,000.00	0.00	0.00
	The weathering common along the	•		•		some scattered	l areas of ye	llow to orange	rust, n
	The girder ends girder ends	•	Ũ					s #4 and #9.	The pair
	In Span #1 at ((top and underside		•			s an area of p	eeling/bubbling) paint 18" Ion	g x 9" v
	In Span #9 at G width.	irder "H", the	bottom flange	underside at F	Pier #9 h	as an area of p	beeling/bubbling	g paint up to S	9' long x
	In Span #10 at Pie			· ·					
1000	Corrosion	3	07/23/2019	15.00	ft	0.00	15.00	0.00	0.00
	Girder "A" in all ee photos 22, 34,	-	attered light a	areas of lamina	r rust on	the north side	and underside	e of the bottor	n flange
	In Span #3 at 0 continues on the	Girder "H" there					•	•	
	In Span #3 at 0	Girder "H" there or north web the north face	14' long x 3" of Girder "A'	' high located " there is mino	between	the first and	second cross	frame from Pi	ier #3 (
	In Span #3 at 0 continues on the photo 28). In Span #7 on	Sirder "H" there on north web the north face splice plate (Se Girder "A", the	14' long x 3' of Girder "A' ee photos 48 ar ere is an area	' high located " there is mino nd 49). a of light rust a	between r laminar and lamin	the first and s rust up to 2" ar rust along th	second cross high x full lea ne interface of	frame from Pi	ier #3 (
	In Span #3 at C continues on the photo 28). In Span #7 on both the west and In Span #11 at	Girder "H" then e north web the north face splice plate (Se Girder "A", the orm between th the north face	14' long x 3" of Girder "A' ee photos 48 ar ere is an area e first and seco e of Girder "A	' high located " there is mino nd 49). a of light rust a ond interior cross	between r laminar and lamin frames fr	the first and s rust up to 2" ar rust along th om Pier #10 (See	second cross high x full lea he interface of e photo 70).	frame from Pingth of the sp	ier #3 (lice plate flange a
	In Span #3 at C continues on the photo 28). In Span #7 on both the west and In Span #11 at the stay-in-place f In Span #13 on	Girder "H" there e north web the north face splice plate (Se Girder "A", the orm between th the north face ield splice (See Girder "A", the	14' long x 3' of Girder "A' ee photos 48 ar ere is an area e first and secc e of Girder "A photo 75). ere is an area	' high located " there is mino nd 49). a of light rust a ond interior cross " there is a 3"	between r laminar and lamin frames fr high x :	the first and s rust up to 2" ar rust along th om Pier #10 (Sec 36" long area o	second cross high x full lea ne interface of e photo 70). f minor lamina	frame from Pi ngth of the sp the girder top ar rusting along	ier #3 (lice plate flange a j the bot

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Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

1020	Connec	tion				3	0	7/23/201	9		12.00		f		0	.00			6.00	1		6.00)	0.	00
		In Spa photos				• "F'	bolted	l field	splice	, а	bolt	head	on	the	bottor	n flan	ige	is	not	flush	with	the	splice	plate	(See
		In Spai 50 and							. ,		•					•						•	plate	(See	ohotos
		In Spai face at							•	ield	splic	ce pla	te is	ber	nt on t	ne top	o of	the	e fla	nge	up to	1/8	" high	at the	north
		In Span	#9 at	the	Girder	"A",	there is	a loos	se, unde	ersiz	ed bo	olt in tl	ne bo	ottom	ı flange	field s	splic	e (S	ee p	ohoto	63).				
		In Span	#14 a	t Gi	rder "B	", th	ere is a	nut tha	at is bad	ckec	l off a	it the r	north	top f	lange f	eld sp	olice	plat	e (8	See p	hoto	79).			
7000	Damage	•				3	0	7/23/201	19		2.00		f		0	.00			2.00)		0.00)	0.	00
	ĺ	In Spa	า #2	at	Girder	"I",	the b	ottom	flange	is	bent	upw	ard	3/4"	high	over	a 2	? le	engtl	n nea	ar th	e se	cond i	nterior	cross

In Span #2 at Girder "I", the bottom flange is bent upward 3/4" high over a 2' length near the second interior cross frame from Pier #2 and the bottom flange at Girder "J" is slightly bent upward in the same location (See photo 23).

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
205	Re Conc Column	3	07/23/2019	39.00	each	39.00	0.00	0.00	0.00

There are three (3) reinforced concrete columns at each pier. Column "A" (north column) is supported on an independent drilled shaft. Columns "B" and "C" (center and south columns) are supported by a reinforced concrete pier wall that was part of the original structure (See photos 32, 43, 53, 60 and 69).

8368 Graffiti	3	07/23/2019	1,190.00	each	1,190.00	0.00	0.00	0.00
The	olumns have scattere	ed areas of graffiti, _l	particularly at the	piers on lan	d (See photos 3	32, 53, 60 and 6	3 9).	

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
210	Re Conc Pier Wall	3	07/23/2019	587.00	ft	293.00	292.00	2.00	0.00

The reinforced concrete pier walls are part of the original structure and support Columns "B" and "C" (center and south columns) (See photos 15, 20, 32, 43, 53, 60, 65 and 69). The piers have a stone masonry facade from below the water surface to the top of the pier wall. There are scattered areas of missing mortar between masonry stones and random cracked stones (See photo 65).

2017 Underwater Inspection:

The reinforced concrete pier walls are part of the original I-195 Eastbound structure and support Columns "B" and "C" (center and south columns) and support the arches (Arches "E" and "F") along with the Pedestrian / Bike Path Bridge (Br. No. 020021). For the Underwater Inspection, the Pier Wall for Bridge No. 020001 and Bridge No. 020021 was inspected and reported as a single structure.

Piers #4 through #9 were included in the underwater inspection from the top of the stone masonry facade (bottom of the pier cope) to the channel bottom.

The stone masonry has scattered areas of missing mortar, up to 15% with penetrations 3" to 6" deep between the stones, cracked stones and missing stones (See UW Photo Nos. 3 thru 21).

The piers also have intermittent areas of footing / pile cap exposure with minor abrasion of the concrete.

1080	Delamination/Spall/Patched Area	3	07/23/2019	3.00	ft	0.00	3.00	0.00	0.00
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Bridge Inspection Report

				h x 1' wide x 2" c				le pier wall.		
		2017 Underwater Ir	spection:							
		At Pier #6 there a concrete pier wall.	are intermitte	nt voids up to	3' long x 6"	high x 6"	deep along	the interface of	the stone faca	ade and
1120	Efflore	scence/Rust Staining	3	07/23/2019	1.00	ft	0.00	1.00	0.00	0.00
		At Pier #13 there face that exhibit mo			ght x up to ⁻	1/16" wide	with one on	the west face	and the other	on the
1130	Cracki	ng (RC and Other)	3	07/23/2019	472.00	ft	293.00	179.00	0.00	0.00
		The pier walls ty present as follows:	pically have	scattered verti	ical hairline o	cracks (Se	e photo 65). Wider and m	nore extensive	cracking
		At Pier #9, south full height x up to long x 6' wide on th	o 1/8" wide	on the west fa	ce south of (Column #3				
		At Pier #10, sout the pier wall, and northwest corner.								
		At Pier #12, there "B" and "C". The been repaired.		-				-		
1190	Abrasi	on(PSC/RC)	3	07/23/2019	10.00	ft	0.00	8.00	2.00	0.00
		2017 Underwater Ir The reinforced cond At Pier #5 there in nath of the pier wall	s a band of	abrasion 2'-6"					deep abrasion	along m
		The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x	s a band of below the sto are isolated 1" deep ne	abrasion 2'-6" one facade. areas of abras ear the channel	high x 3/4" sion 2' long x bottom on th	deep acros < 1' high > ie north fa	ts the north x 2" deep o ce of the pie	nose and 1/2" o n the south fac er wall. There is	e and there is also an area	s a ban
4000	Settler	The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" de	s a band of below the sto are isolated 1" deep ne	abrasion 2'-6" one facade. areas of abras ear the channel	high x 3/4" sion 2' long x bottom on th	deep acros < 1' high > ie north fa	ts the north x 2" deep o ce of the pie	nose and 1/2" o n the south fac er wall. There is	e and there is also an area	a ban of abra
4000	Settler	The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on be the top of the sta	rete pier wall s a band of below the sto are isolated : 1" deep ne seep near the of 3 s previously minor rotatio n to wide volu- spection Note oth the wes- one masonry	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier v ertical cracks in es: t and east face y facade down	high x 3/4" sion 2' long x bottom on th t southwest co 1.00 ier #12 have wall could no n the pier wa es of the pie to the chann	deep acros	as the north x 2" deep o ce of the pie ober wall (See 0.00 een removed ed from the rs #9, #10 e vertical cr near the m	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs c	a band of abra 0.00 As a re oort. T of settler extend nay indid
4000	Settler	The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on bo	rete pier wall s a band of below the sto are isolated : 1" deep ne seep near the of 3 s previously minor rotatio n to wide volu- spection Note oth the wes- one masonry	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier v ertical cracks in es: t and east face y facade down	high x 3/4" sion 2' long x bottom on th t southwest co 1.00 ier #12 have wall could no n the pier wa es of the pie to the chann	deep acros	as the north x 2" deep o ce of the pie ober wall (See 0.00 een removed ed from the rs #9, #10 e vertical cr near the m	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs c	a band of abra 0.00 As a re oort. T of settler extend nay indid
4000	Settler	The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on bit the top of the st slight settlement of	rete pier wall s a band of below the sto are isolated : 1" deep ne seep near the of 3 s previously minor rotatio n to wide volu- spection Note oth the wes- one masonry	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier v ertical cracks in es: t and east face y facade down	high x 3/4" sion 2' long x bottom on th t southwest co 1.00 ier #12 have wall could no n the pier wa es of the pie to the chann	deep acros	as the north x 2" deep o ce of the pie ober wall (See 0.00 een removed ed from the rs #9, #10 e vertical cr near the m	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs c	a band of abras 0.00 As a re hort. Th of settler extend th nay indic
		The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on bit the top of the st slight settlement of	rete pier wall s a band of below the sto are isolated : 1" deep ne seep near the of 3 s previously minor rotatio in to wide ve spection Note to the wess one masonry if the pier, a 3 spection: Jnderwater I steps / pile	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier w ertical cracks in es: t and east face / facade down as previously no 07/23/2019	high x 3/4" sion 2' long x bottom on th t southwest co 1.00 fer #12 have wall could no n the pier wa es of the pie to the chann oted in the 2 100.00	deep acros	as the north (x 2" deep of ce of the pid oier wall (See 0.00 een removed ed from the rs #9, #10 re vertical cr near the m water Inspec 0.00 at the piers	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p tion Report (Se 100.00	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs c 1/4" wide that ier wall that n e UW Photo I 0.00 gh (Pier #6),	a band of abras 0.00 As a re port. T of settler extend Nos. 10, 0.00 however
		The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on but the top of the st slight settlement of 15 and 16). 2017 Underwater In Since the 2013 U exposure of the st remained relatively	rete pier wall s a band of below the sto are isolated : 1" deep ne seep near the of 3 s previously minor rotatio in to wide ve spection Note to the wess one masonry if the pier, a 3 spection: Jnderwater I steps / pile	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier w ertical cracks in es: t and east face / facade down as previously no 07/23/2019	high x 3/4" sion 2' long x bottom on th t southwest co 1.00 fer #12 have wall could no n the pier wa es of the pie to the chann oted in the 2 100.00	deep acros	as the north (x 2" deep of ce of the pid oier wall (See 0.00 een removed ed from the rs #9, #10 re vertical cr near the m water Inspec 0.00 at the piers	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p tion Report (Se 100.00	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs c 1/4" wide that ier wall that n e UW Photo I 0.00 gh (Pier #6),	a band of abras 0.00 As a re port. The ort. The settler extend for nay indic Nos. 10, 0.00
6000	Scour	The reinforced cond At Pier #5 there in ngth of the pier wall At Pier #7 there abrasion 5' high x 12" diameter x 5" da nent Settlement gauges previously noted in are some medium were observed. 2017 Underwater In At Pier #7, on but the top of the st slight settlement of 15 and 16). 2017 Underwater In Since the 2013 U exposure of the st remained relatively	rete pier wall s a band of below the sto are isolated 1" deep ne are head the seep near the of 3 s previously minor rotatio in to wide ver spection Note oth the wes one masonry of the pier, a 3 spection: Inderwater I steps / pile unchanged. 3	abrasion 2'-6" one facade. areas of abras ear the channel channel bottom a 07/23/2019 installed at Pi n of the pier w ertical cracks in es: t and east face / facade down as previously no 07/23/2019 nspection, there caps up to 3' 07/23/2019	high x 3/4" sion 2' long x bottom on the t southwest con 1.00 fer #12 have wall could no in the pier wa es of the pier to the channe to the channe 100.00 e is evidence vertically x 3,240.00	deep acros	s the north x 2" deep o ce of the pie- oier wall (See 0.00 een removed ed from the s #9, #10 e vertical cr near the m water Inspec 0.00 at the piers full-length c	nose and 1/2" of n the south fac er wall. There is Photo Nos. 12 the 1.00 or covered/pai 2013 Routine and #12, howev acks open to 1 idpoint of the p tion Report (Se 100.00	e and there is also an area ru 14). 0.00 inted over. // Inspection Rep /er no signs of //4" wide that ier wall that m e UW Photo I 0.00 gh (Pier #6), Piers #4, #5	a band of abras 0.00 As a re oort. T of settler extend nay india Nos. 10, 0.00 however and #8

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Bot	h al	butments exhibit ra	indor	n hollow are	as, minor	spalls,	and hair	line crack	s with ar	nd witho
hav	e bee	ence (See photos 1 en painted over (See pl	hoto	17).				eviously r	ioted areas	of graf
Ine	1080	debris on the beam se Delamination/Spall/Patched Area	3	07/23/2019	2.00	ft	0.00	2.00	0.00	0.00
		At Abutment #2, on high x 12" wide x 6" d			0			a with perime	ter cracking ar	nd adjacen
	1120	Efflorescence/Rust Staining	3	07/23/2019	1.00	ft	0.00	1.00	0.00	0.00
		At Abutment #1, th Bays "H" and "I" (See			20' long with	efflores	cence, located	near the b	ase of the ab	outment un
		At Abutment #2, th and 89).	iere a	re random hairline	cracks with e	fflorescer	ice, some wh	ich have bee	en repaired (S	ee photos
	1130	Cracking (RC and Other)	3	07/23/2019	168.00	ft	168.00	0.00	0.00	0.00
		At Abutment #1, th 17). Random areas c							ve been seale	d (See pl
				1	1	1	071	071	071	1
		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
220 At pile	сар	ELEMENT NAME Re Conc Pile Cap/Ftg #10, there is some (See photo 69). derwater Inspection:	3	07/23/2019	218.00	ft	CS 1 216.00	CS 2 2.00	CS 3 0.00	CS 4
220 At pile 201 [°] The	cap 7 Uno pie	Re Conc Pile Cap/Ftq #10, there is some (See photo 69).	ero:	07/23/2019 sion at the no	218.00 orthwest cor concrete pile	ft ner of caps	CS 1 216.00 wall, expo with unk	cs 2 2.00 psing a 22 nown type	CS3 0.00 Cong port	CS 4 0.00
220 At pile 201 [°] The	cap 7 Uno pie	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded	ero:	07/23/2019 sion at the no	218.00 orthwest cor concrete pile	ft ner of caps	CS 1 216.00 wall, expo with unk	cs 2 2.00 psing a 22 nown type	CS3 0.00 Cong port	CS 4
220 At pile 201 [°] The	cap 7 Uno pie crete	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founder step / pile cap steps o	d or but 18	07/23/2019 sion at the no reinforced c 3" to 2' from the 07/23/2019	218.00 prthwest cor concrete pile pier face the 218.00	ft ner of caps n slope ft	CS 1 216.00 wall, expo with unk es downward	cs 2 2.00 Dosing a 22 nown type d at a 45° an	CS3 0.00 2' long port 2 piles. 1 ngle.	cs 4 0.00 cion of
220 At pile 201 [°] The	cap 7 Uno pie crete	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded step / pile cap steps c Abrasion(PSC/RC) 2017 Underwater Insp	d or but 18 3 pectior abrasic	07/23/2019 sion at the no reinforced c 3" to 2' from the 07/23/2019 t: on up to 1/2" deep of norete step / pile c	218.00 porthwest cor concrete pile pier face the 218.00 n the exposed sur	ner of caps n slope ft	CS 1 216.00 wall, expo with unk es downward 216.00	CS 2 2.00 posing a 22 nown type d at a 45° at 2.00	cs 3 0.00 2' long port e piles. T ngle. 0.00	CS 4 0.00 Cion of
VBR 220 At pile 201 [°] The con	cap 7 Uno pie crete	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded step / pile cap steps of Abrasion(PSC/RC) 2017 Underwater Insp The pile caps exhibit : At Pier #8 the slope	d or but 18 3 pectior abrasic	07/23/2019 sion at the no reinforced c 3" to 2' from the 07/23/2019 t: on up to 1/2" deep of norete step / pile c	218.00 porthwest cor concrete pile pier face the 218.00 n the exposed sur	ner of caps n slope ft	CS 1 216.00 wall, expo with unk es downward 216.00 sion 18" long	CS 2 2.00 2.00 2.00 2.00 x 6" high x	<u>cs3</u> 0.00 2' long port e piles. T ngle. 0.00 2" deep on the	CS 4 0.00 Cion of The slop
BR 220 At pile 201 ¹ The con	cap 7 Uno pie crete	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded step / pile cap steps of Abrasion(PSC/RC) 2017 Underwater Insp The pile caps exhibit a At Pier #8 the slope the pier, located 5' from	d or but 18 3 pectior abrasic ed cor om the	07/23/2019 sion at the no reinforced c 3" to 2' from the 07/23/2019 t: on up to 1/2" deep of norrete step / pile c southeast corner.	218.00 prthwest cor concrete pile pier face the 218.00 In the exposed sur- cap has an area	ft ner of caps n slope ft faces.	CS 1 216.00 wall, expo with unk es downward 216.00 sion 18" long	CS 2 2.00 psing a 22 nown type d at a 45° at 2.00 x 6" high x	cs3 0.00 2' long port e piles. 1 ngle. 0.00 2" deep on the	cs 4 0.00 ion of The slo
At pile 201 [°] The con	Cap	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded step / pile cap steps of Abrasion(PSC/RC) 2017 Underwater Insp The pile caps exhibit a At Pier #8 the slope the pier, located 5' from ELEMENT NAME Steel Pile derwater Inspection:	d or out 18 3 pectior abrasic ed cor m the ENV 3	07/23/2019 sion at the no reinforced c 3" to 2' from the 07/23/2019 a: on up to 1/2" deep of herete step / pile c southeast corner. INSP. DATE 07/23/2019	218.00 prthwest cor concrete pile pier face the 218.00 In the exposed sur cap has an area QUANTITY 6.00	ft e caps n slope ft efaces. of abra UNITS (EA)	CS 1 216.00 wall, expo with unk 216.00 216.00 sion 18" long QTY CS 1 6.00	CS 2 2.00 psing a 22 nown type d at a 45° ai 2.00 x 6" high x QTY CS 2 0.00	CS 3 0.00 2' long port e piles. ngle. 0.00 2'' deep on the QTY CS 3 0.00	CS 4 0.00 iion of 7he slop 0.00 e east face 0.00
At pile 2011 At con 2011 The con 2011 Recon 225 2011 This at th Ove fron	cap 7 Und pie crete 1190 7 Und s ele ne no er the n the	Re Conc Pile Cap/Ftq #10, there is some (See photo 69). derwater Inspection: r walls are founded e step / pile cap steps of Abrasion(PSC/RC) 2017 Underwater Insp The pile caps exhibit a At Pier #8 the slope the pier, located 5' from ELEMENT NAME Steel Pile	eros eros d or out 11 3 cectior abrasic ed cor m the ENV 3 to the p e ca con	07/23/2019 sion at the normalized of the second of the se	218.00 prthwest cor concrete pile pier face the 218.00 In the exposed sur cap has an area QUANTITY 6.00 ition of the ere is a fib	rt ner of e caps n slope ft rfaces. u of abra UNITS (EA) steel erglass	CS 1 216.00 wall, expo with unk es downward 216.00 sion 18" long QTY CS 1 6.00 encased re 5 jacket in	CS 2 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.	CS3 0.00 2' long port e piles. 1 ngle. 0.00 2" deep on the CS3 0.00 concrete cal	CS 4 0.00 ion of 0.00 0.00 e east fact 0.00 isson pi 3'-6'' do

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	2017 Underwater Insp At Piers #4 through #9 At Pier #5, the ex	ectior), the s	steel casing at the ca	aisson piles exhib	ts minor	corrosion belov	v the fiberglass	-	ss along the
	channel bottom.		-	-					-
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
234	Re Conc Pier Cap	3	07/23/2019	920.00	ft	909.00	11.00	0.00	0.00
76 a of i	re are reinforced concret and 77). The pier caps isolated minor debris on ts from construction.	have	minor spalls	and random	nly spa	aced hairlir	ne cracks.	There are	also areas
	1080 Delamination/Spall/Patched Area At Pier #1, the we Columns "A" and "B" (At Pier #13, the eas See photo 78).	See p	hoto 20).	-	-	-			-
	1120 Efflorescence/Rust Staining	3	07/23/2019	1.00	ft	0.00	1.00	0.00	0.00
	The pier caps have 44, 58 thru 62 and 77 The east face of efflorescence behind f). Pier	#11 was observe	ed to have an			-		
	1130 Cracking (RC and Other)	3	07/23/2019	917.00	ft	909.00	8.00	0.00	0.00
	The pier caps have 62 and 76). Pier #6 ar Pier #3 has two (2 underside of cap (5 across the full widt continues 12" onto the The east face of efflorescence behind f	nd Pier) vert See p h of e unde Pier	#8 have a few cress ical cracks in the hoto 31). Below the cap underside rside of cap. #11 was observe	cent shaped crack west face of th Girder "E" the . Below Girde	ks preser ne pier vertical r "F" th	cap beneath (crack measur e vertical crac	Girders "E" an Girders "E" an res 6' high x ck measures	d "F" that ext 0.010" wide 6' high x 0.0	end onto the and continues 05" wide and
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
300	Strip Seal Exp Joint	3	07/23/2019	68.00	ft	0.00	23.00	45.00	0.00
have	re is a strip seal expan e several locations of seal.		-		-	-	-		
	2340 Seal Cracking	3	07/23/2019	45.00	ft	0.00	0.00	45.00	0.00
	At the Abutment #1 jo	nt, the	ere is a transverse cr	ack 45' long x up	to 1" wid	e (See photo 3)).		
	2350 Debris Impaction	3	07/23/2019	23.00	ft	0.00	23.00	0.00	0.00
	There is light to mode	rate di	rt and debris in the jo	pint (See photo 3)					
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
301	Pourable Joint Seal	3	07/23/2019	161.00	ft	161.00	0.00	0.00	0.00
CN_Ver	-Inspection_SIA_English		0200	001			Mon	08/26/2019 1 Page	1:44:10 • 10 of 18

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	s pourable joint seala joint sealant exhibits i		• •	h slab joints	at b	oth ends o	f the bridg	je (See pho	tos 3 and
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
303	Assem Jnt With Seal	3	07/23/2019	220.00	ft	0.00	178.00	0.00	42.00
of rippe	re modular expansio d, missing and depress	ed n	eoprene as well	as debris im	pactior	n (See photo		13).	
2340	Seal Cracking	3	07/23/2019	42.00	ft	0.00	0.00	0.00	42.00
	At the Pier #4 join length of the joint (See At East Abutment photo 13).	e photo	9).		·			0 11	
2350	Debris Impaction	3	07/23/2019	178.00	ft	0.00	178.00	0.00	0.00
	The modular joints low speed shoulder. The joint at Piers #4 a					•		impaction obs	erved in the
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Re Conc Approach Slab	3	07/23/2019	2,212.00	sq.ft	582.00	1,630.00	0.00	0.00
510	h slab is bare, with no Wearing Surfaces The west approach rutting. There is an	3 slab appr	07/23/2019 is paved over wi	782.00	sq.ft wearing	482.00 g surface that	300.00 t exhibits crac	0.00 king and mind	
	speed lane (See photo 3220 Crack (Wearing Surface	,	3 07/23/20	19 170.00		sq.ft 0.00	170.00	0.00	0.00
	long ai	ea of	us wearing surfac deterioration and hairline transverse	settlement alor	g the p	pavement sear			
1130	Cracking (RC and Other)	3	07/23/2019	100.00	sq.ft	100.00	0.00	0.00	0.00
	The top surface of the	east a	pproach slab has so	cattered longitudi	al crack	s in the off ramp	o lane (See pho	to 14).	
1190	Abrasion(PSC/RC)	3	07/23/2019	1,160.00	sq.ft	0.00	1,160.00	0.00	0.00
	The east approach photo 14).	slab	exhibits areas of	minor to moder	ate wea	r, as well as	a few minor	scrapes and	gouges (See
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Conc Bridge Railing	3	07/23/2019	3,318.00	ft	3,317.00	0.00	1.00	0.00
barriers	extend beyond the and minor gouges (Se Cracking (RC and Other)	ар	proaches. The	railings ex			-	-	
	·								

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

The concrete railings have scattered full height hairline cracks spaced 2' to 3' apart on the bridge (See photo 8).

The exterior face of the bridge railing along both sides was observed to have up to full height vertical hairline cracks throughout (See photos 15 and 25).

7000	Damage	3	07/23/2019	9.00	ft	8.00	0.00	1.00	0.00
	The second base of the		- Second Alexandria		0110000				

The northwest approach rail has impact damage approximately 9' long x 3' high.

Both railings were observed to have impact damage/scrapes and minor gouges throughout (See photos 4, 7, 8 and 11)

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8060	Scupper	3	07/23/2019	26.00	(EA)	0.00	22.00	4.00	0.00

Scupper Grates – A majority of the grates along the south curb are partially to 100% clogged with dirt/ mud. The scupper grate near the west abutment #1 joint is 100% clogged with mud/debris and has standing water at the time of the inspection (See photo 4). The scupper grate near pier #2 is 100% clogged with mud/debris and has heavy vegetation growth (See photo 6). The scupper grate near pier #4 is 100% clogged with mud/debris, has heavy vegetation growth and standing water at the time of the inspection (See photo 8). The scupper grate in span #14 was observed to be partially blocked by mud and debris (See photos 12).

The scupper grates along the north curb make a banging noise when vehicles pass over them.

Scupper Downspouts – The downspouts are clogged at west abutment #1 south side, Pier #1 north side , Pier #2 south side, Pier #5 south side, Pier #6 south side (See photo 44). There is a clogged catch basin at the base of east abutment #2 that has caused standing water up to full length of the abutment (See photo 88).

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8107	Steel Opn Girder/Beam ENDS	3	07/23/2019	310.00	ft	310.00	0.00	0.00	0.00

The steel girder ends are painted over at both abutments and at piers #4 and #9. The girder ends were observed to be in good condition with isolated locations of chipped paint and light surface rust (See photos 39)

515 Steel Protective Coating 3 07/23/2019 3,710.00 sq.ft 3,710.00 0.00 0.00 0.00

The painted girder ends were observed to be in overall good condition with an isolated area of chipped paint with light rust (See photo 39)

(LF)

70.00

0.00

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8213	R/C Return Wall	3	07/23/2019	70.00	(LF)	70.00	0.00	0.00	0.00

There is a reinforced concrete return wall at the northeast corner of the bridge. The Northeast Return Wall has an architectural finish and displays hairline cracks with light to moderate vegetation growth in front of the wall (See photo 87).

70.00

1130 Cracking (RC and Other)

3

07/23/2019

The Northeast Return Wall has vertical hairline cracks extending from the weep holes up to 10' high (See photo 87).

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8218	Backwall, All Types	3	07/23/2019	171.00	(LF)	168.00	1.00	2.00	0.00

There are reinforced concrete backwalls at both abutments. The backwalls exhibit spalls and cracks with and without efflorescence (See photos 18, 82 and 83).

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0.00

0.00

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	1080	Delamination/Spall/Patched Area	3	07/23/2019	2.00	(LF)	0.00	0.00	2.00	0.00
		At Abutment #2, photo 82).	there is	a 7" high x 24"	wide x up to	12" deep	spall at the	top of backv	vall, behind Gi	rder "A" (S
	1120	Efflorescence/Rust Staining	3	07/23/2019	1.00	(LF)	0.00	1.00	0.00	0.00
		The backwalls have	e random I	hairline vertical cra	cks up to full heig	ht with eff	lorescence (Se	ee Photos 18 ar	nd 83).	
	1130	Cracking (RC and Other)	3	07/23/2019	168.00	(LF)	168.00	0.00	0.00	0.00
		The backwalls hav	e random I	hairline cracks up t	o full height (See	Photos 18	3 and 83).			
.EM BR		ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
316		Isolation Bearing	3	07/23/2019	172.00	(EA)	61.00	99.00	12.00	0.00
mod coni 64, 6	derate necti	re isolation bearin e rust, concrete on issues at appro 1, 74, 85 and 86).	debris/c	over-pour from ly 50% of all	m construct	ion, wi s (See	idespread photos 21	locations , 24, 30, 3	of misaligi 33, 38, 39,	nment a 41, 45,
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appro 1, 74, 85 and 86).	debris/c oximate	over-pour from ly 50% of all 07/23/2019	m construct connection 4.00	ion, wi s (See (EA)	idespread photos 21	locations 1, 24, 30, 3 4.00	of misaligi	nment a
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appr 1, 74, 85 and 86).	debris/c oximate	over-pour from ly 50% of all 07/23/2019	m construct connection 4.00	ion, wi s (See (EA)	idespread photos 21	locations 1, 24, 30, 3 4.00	of misaligi 33, 38, 39,	nment a 41, 45,
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appro 1, 74, 85 and 86).	debris/c oximate 3 "E" and "G er "J" bea	over-pour from ly 50% of all 07/23/2019 S" bearings exhibit a aring in Span #4	4.00 areas of light to n	ion, wi s (See (EA)	0.00 ust (See photo	locations , 24, 30, 3 4.00 9 30).	of misaligi 33, 38, 39, 0.00	nment a 41, 45, 0.00
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appre 1, 74, 85 and 86). Corrosion At Pier #3, Girders At Pier #4, Girde	debris/c oximate 3 "E" and "G er "J" bea irder "H" be	over-pour from ly 50% of all 07/23/2019 S" bearings exhibit a aring in Span #4 earing.	4.00 areas of light to n exhibits moder	ion, wi s (See (EA) noderate ru rate rust	o.oo on the masc	locations , 24, 30, 3 4.00 9 30). anry plate (See	of misalign 3, 38, 39, 0.00 e photo 39). L	nment a 41, 45, 0.00
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appre 1, 74, 85 and 86). Corrosion At Pier #3, Girders At Pier #4, Girde observed on the G	debris/c oximate 3 "E" and "C er "J" bea irder "H" be H" bearing	over-pour from ly 50% of all 07/23/2019 5" bearings exhibit aring in Span #4 earing. g in Span #6 exhibit	4.00 areas of light to n exhibits moder	ion, wi s (See (EA) noderate ru ate rust s of moder	o.oo on the masc	locations , 24, 30, 3 4.00 9 30). anny plate (Sec aring plates (Se	of misalign 13, 38, 39, 0.00 e photo 39). L e photo 45).	1, 45, 0.00
mod coni 64, 6	derate necti 68, 7	e rust, concrete on issues at appre- 1, 74, 85 and 86). Corrosion At Pier #3, Girders At Pier #4, Girde observed on the G At Pier #5, Girder " At East Abutmen	debris/c oximate 3 "E" and "C er "J" bea irder "H" be H" bearing	over-pour from ly 50% of all 07/23/2019 5" bearings exhibit aring in Span #4 earing. g in Span #6 exhibit	4.00 areas of light to n exhibits moder	ion, wi s (See (EA) noderate ru ate rust s of moder	o.oo on the masc	locations , 24, 30, 3 4.00 9 30). anny plate (Sec aring plates (Se	of misalign 13, 38, 39, 0.00 e photo 39). L e photo 45).	nment a 41, 45, 0.00

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

	At Pier #2, the Girc north (See photo 24).	ler "J" b	earing is offset	up to 2" to the	west. Th	ne anchor bol	t on the sout	h end is bent	slightly to the
	At Pier #4, Span # photo 41).	≇5, Girde	ers "B" through	"I" centerline is	s offset u	up to 1.25" ຮ	south of the	bearing pad c	enterline (See
	At Pier #8, Girder Girder "B", centerlin also offset up to 3" to	e is off	set 2-1/4" to the	e south of the		-			
	At Pier #9 a majori offset approximately 2		•				f the bearing	pad centerlines	s. Girder C is
	At Abutment #2, Gi photos 85 and 86).	rders "B	", "D" and "G"	through "L" cer	terlines a	ire offset 2"	south of the	bearing pad c	enterline (See
	In addition, some gird	er botton	n flanges are not s	seated flush with	he sole pl	ates. These de	ficiencies are	as follows:	
	At Pier #2, Girder southwest corner and					p between th	ne bottom fla	inge and sole	plate at the
	At Pier #5, Girder face of the bearing (S			, exhibits a 1/1	6" gap b	etween the b	oottom flange	and sole plate	on the east
	At Pier #9, Girder "A"	bearing i	n Span #10, exhit	oits a 1/16" gap b	etween the	e bottom flange	e and the sole	plate.	
	At Pier #12, Girder southeast corner and		a 1		• •	between the	bottom flang	e and the sole	plate at the
2230 Bulg	ng, Splitting or Tearing	3	07/23/2019	2.00	(EA)	0.00	2.00	0.00	0.00
	At Pier #4, Girder 1 38)	'E" bear	ing in Span #4,	the bearing m	aterial is	compressed	up to 1/4" or	n the south sid	e (See photo
	At Pier #4 in span #5	the south	side of bearing "	E" is compressed	up to ¼" ((See photo 41)			
	At Pier #8, Girder "A"	bearing i	s compressed up	to 1/4" on the so	ith side.				
2240 Loss	of Bearing Area	3	07/23/2019	40.00	(EA)	0.00	40.00	0.00	0.00
	Several of the bea the edges of the p several locations an pedestal having an ur	late. The d up to	e gaps between 3/4" high in a	the masonry p a few locations.	late and The ga	the concrete aps are the r	bearing pede	estal are up to	1/4" high at
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8370 St	el Diaphragms	3	07/23/2019	805.00	(EA)	804.00	1.00	0.00	0.00
scattered I	^r cross frames ocations of co leficiencies. (See p	ncrete	debris /	over-pour		d areas o constructio	-	to orange solated loo	rust with cations of
515 Stee	Protective Coating	3	07/23/2019	24,200.00	sq.ft	24,200.00	0.00	0.00	0.00
	The cross frames cross frames exhibi below the deck joi However, the end dia	t a norr nts at t	nal surface patin he abutments a	na with some s ind at Piers #	cattered and #9	areas of yell are painted	ow to orange	e rust. The end	d diaphragms
1020 Conr	ection	3	07/23/2019	1.00	(EA)	0.00	1.00	0.00	0.00

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Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Bay "G" interior cross frames in several spans have plate washers overlapping adjacent washers and are slightly bent (See photo 66).

At Pier #9 in Span #10, the bolts at the end diaphragm connections to Girder "G" and "H" in Bay "G" are loose or not fully engaged. There is also a slight gap between the bearing stiffener plate and the end diaphragm at both connections.

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

BRIDGE NOTES

EQUIPMENT REQUIRED: 60' Manlift, Barge with 60' manlift for spans over water, Local Police, Traffic Control, Crash Truck

TRAFFIC CONTROL INFORMATION: Need traffic control for work in Span 1 over Gano Street, Span 14 over Waterfront Drive and Water Street and for the rolling topside inspection.

POLICE DETAIL NEEDED: Need police detail for work in Span 1 over Gano Street, Span 14 over Waterfront Drive and Water Street and for the rolling topside inspection. INSPECTION NOTES

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Routine Inspection Completed by Commonwealth Engineers and Consultants, Inc. Inspection Dates: 06/24/19 – 07/23/19 Team Leaders: Dave Titus, P.E., Ben Soares, P.E., Niverio Carvalho, P.E., Jim Onysko, P.E. Team Member: Matt Brooks

The scope of work was to perform a routine inspection of the bridge.

No significant changes in the condition of the structure were observed during this inspection, and therefore the NBI condition ratings remain unchanged:

Deck (58) – 7 Good Superstructure (59) – 7 Good Substructure (60) – 6 Satisfactory

Deflection and Vibration - No unusual deflection or vibration was noted.

The electrical conduit flexible coupling at the joint over pier #9 on the exterior face of the south railing was observed to be torn and detached (See photo 67).

Underbridge Lights – There are four (4) lights over Waterfront Drive which were on during the inspection and two (2) lights over Water Street which were off during the inspection. The electrical conduit under Beam "I" in Span #14, is missing an attachment bracket.

Light Standards – There are ten (10) lights spaced evenly along the north side and south side of the bridge, respectively. The lights were not on at the time of the inspection and it is unknown if they function.

Underwater Inspection Notes:

Fender System – There is a timber fender system in place along the east side of Pier #6 and the west side of Pier #7. The timber fender system members exhibit minor splits and checking along with damaged or missing handrails (See photos 53 and 54). The dolphin pile groups at the south (downstrea m) end of the fenders have recently been replaced and have no significant defects.

Navigational Lighting – The navigational lighting system in place exhibits no significant deficiencies, however the lights were not on at the time of the inspection.

Channel Debris – There are no obstructions or debris accumulation which would affect the hydraulic opening at the bridge.

SCHEDULE NOTES

Bridge Inspection Report

Structure Inventory and Appraisal Sheet (English Units)

Equipment Aerial Lift Image: Construct of the system of the sy	Poison Ivy □ Heavy Vegetation □ Hurricane Evac Route ? □ Cones Yes Traffic Setup Req Yes Police Req Yes Night Insp Req No Signs Yes Site Access Notes Image: Notes	Speed Limit Prep Time Crew Slize Under Insp Vehicle Time Traffic Control Time Mile Post Crew Days Time Report Time Bucket Truck Time
Avg Curb Reveal North/East Avg Curb Reveal South/West Posted Weight Limit Posting Sign ? Post Signs Legible Post Sign Rec Adv Min Vert Clear Sign Min Vert Clear Signs Leg Min Vert Clear Post Vales Min Vert Clear Sign Rec Old Rating and Postings RR Mile Post US DOT/AAR No.	□ -1 -1 02 01 01	TelephoneISewerICableIOilIFire AlarmIOH Lines PresentIWaterIGasIElectricIFiber OpticI

Work Candidaties

Assigned tio Agency

Stiatius	Prioritiy	Action	Datie Proposed	Noties
Unknown	Medium	Drain-Cln/Clr Dck Drain/Dwn spouti	07/28/2015	Ati Piers5, 6, 7 and 11, tihe soutih scuppers are completiely clogged and need tio be cleaned outi The quantitiy of scuppers requiring cleaning is 4 EA.
				Also, tihere are5 scuppers along tihe nortih side of tihe bridge tihati are missing a gratie The nortih scuppers fall witihin tihe wheel line of tihe highspeed lane and tiherefore tihese scupper graties should be replaced.
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